

ABSTRACT OF THE INVENTION

Apparatus for imaging of the inner structure of the breast, the apparatus comprising:

- 5        a source of light illuminating the breast when the source of light is situated at a first position of the breast; and  
              a detector which when situated at a second position relative to the breast, detects light from said source passing through a portion of the breast from the source; wherein the source of light comprises either:
  - 10        a non-laser radiant source and at least one optical filter situated between source and the detector that limits the light reaching the detector from the source to a visible spectral band limited to wavelengths in the range from 490 to 510 nanometers or 520 to 580 nanometers; or  
              a source of laser light operating at an output at between 490 and 510 nanometers or between 520 and 580 nanometers or is a tunable laser light source operating at a wavelength between 490 and 510 nanometers or between 520 and 580 nanometers.
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